

MATERIAL SAFETY DATA SHEET



DATE PREPARED: 04/05/2002
MSDS No: 7130

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: KGRO® Fire Ant Killer Granules
PRODUCT DESCRIPTION: Insecticide

MANUFACTURER

Swiss Farms Products, Inc.
3773 Howard Hughes Pkwy.
Suite #300N
Las Vegas, NV 89109

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
Emergency Phone: 1-800-327-6595

EPA REG. NO.: 28293-328-73327 **PN:** 7072

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Permethrin	0.25	52645-53-1
Other Ingredients	99.75	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Granular solid

IMMEDIATE CONCERNS: CAUTION:

- HARMFUL IF ABSORBED THROUGH THE SKIN
- AVOID CONTACT WITH EYES, SKIN OR CLOTHING
- WASH THOROUGHLY AFTER HANDLING
- KEEP OUT OF REACH OF CHILDREN

POTENTIAL HEALTH EFFECTS

EYES: Eye contact may cause discomfort, tearing, swelling, redness, and blurred vision. See Toxicology Information, Section 11.

SKIN: Since this product is a granular formulation, it is expected to have only slight irritation potential and a low degree of systemic toxicity from the dermal route of exposure. See Toxicology Information, Section 11.

INGESTION: If swallowed, this product may cause gastrointestinal tract irritation. See Toxicological Information, Section 11.

INHALATION: Due to the physical form of the product, risk of inhalation exposure is considered to be low. Overexposure to the product dust may be irritating to the respiratory tract. See Toxicological Information, Section 11.

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: Synthetic pyrethroids are neuropoisons acting on the axons in the peripheral and central nervous systems by interacting with sodium channels in insects or mammals. Toxic signs in mammals include tremors, hyperexcitability, salivation, and

paralysis. Atropine and pralidoxime (2-PAM) are of no benefit as cholinesterases are unaffected. Supportive therapy should be administered based on the signs and symptoms present. Vitamine E oil applied dermally may relieve cutaneous paresthesias following skin contact.

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative - Pesticide Registration (PR) Notice 2000-3 April 11, 2000 - and would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: CO₂, dry chemical, foam, or water fog.

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce hydrochloric acid gas. Incomplete combustion can produce carbon monoxide and hydrogen chloride.

EXPLOSION HAZARDS: Product contains dust particles that may be explosive if mixed with air in critical proportions and in the presence of an ignition source.

FIRE FIGHTING PROCEDURES: Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Keep containers cool with a water spray. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Sweep up material and use or dispose of according to label instructions.

LARGE SPILL: Clean up spills immediately, observing precautions in Exposure Controls/ Personal Protection section. Vacuum with machines equipped with high efficiency filters or sweep up material and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with Oil Dry, cat litter, clay, rags or other absorbent and place in a disposable container. Dispose of in accordance with instructions in Section 13. "DISPOSAL".

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep pesticide in original container. Do not put into food or drink containers. Avoid contamination of feed and foodstuffs. Store in a cool, dry place, preferably locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

PERSONAL PROTECTION

EYES AND FACE: Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

For application of product in accordance with label instructions, no special eye protection is needed.

SKIN: Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type of glove for given application. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling.

RESPIRATORY: Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment (full facepiece recommended) when airborne exposure limits are exceeded (see below). If used, full facepiece replaces need for chemical goggles. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134. For application of product in accordance with label instructions, no special respiratory protection is required.

COMMENTS: Nuisance Dust (OSHA) - 15 mg/m³ (Total Dust), 5 mg/m³ (Respirable Fraction). Particulates Not Otherwise Classified (PNOC) ACGIH- 10 mg/m³ (Inhalable Particulate), 3 mg/m³ (Respirable).

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

Chemical Name

EXPOSURE LIMITS

<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>ACGIH STEL</u>
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Permethrin

None

None

None

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Granular solid

ODOR: Xylene-like.

COLOR: Brown.

SOLUBILITY IN WATER: Soluble

DENSITY: 26.36 lb/cu ft (fluffed), 29.04 lb/cu ft (compacted)

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Avoid contact with acids and bases.

HAZARDOUS DECOMPOSITION: May decompose under fire conditions emitting gases and vapors (i.e. oxides of carbon and hydrogen chloride) which may be toxic and irritating to the respiratory tract.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Non-irritating (rabbit).

DERMAL LD₅₀: LD50 (rabbit): > 5000 mg/kg (practically non-toxic).

ORAL LD₅₀: LD50 (rat): >5,000 mg/kg body weight (practically non-toxic).

INHALATION LC₅₀: No inhalation LC50 product information available.

SENSITIZATION: No evidence of allergic skin reactions have been associated with permethrin. However, certain individuals may experience mild skin sensations (skin paresthesia characterized by numbing or tingling) having a latency of 30 minutes, peaking by 8 hours, that subsides within 24 hours.

CARCINOGENICITY:

IARC: No

NTP: No

OSHA: No

GENERAL COMMENTS: Persons having a history of insecticide exposure to pyrethrins may experience upper airway irritation and lower airway reactions, such as coughing, wheezing, or shortness of breath, particularly in sensitized individuals. Persons who cannot tolerate chrysanthemums, pyrethrins, and other synthetic pyrethroids may not tolerate permethrin.

COMMENTS: The acute toxicity information provided by Unicorn Laboratories (EPA Reg. No. 28293-328).

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This material is toxic to fish. Keep out of any body of water. Do not contaminate water used for irrigation or domestic purposes. Do not contaminate water by cleaning of equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: For disposal of a partially filled container, call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

FOR LARGE SPILLS: Material collected that cannot be reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures.

EMPTY CONTAINER: Carefully follow label instructions for product disposal. Do not reuse container. Place empty container in

trash or offer for recycling if available.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

PRIMARY HAZARD CLASS/DIVISION: None

UN/NA NUMBER: NONE

PACKING GROUP: NO

U.S. SURFACE FREIGHT CLASS: Insecticides, Fungicides, Insect or animal repellents or vermin exterminators, NOI, Other than poison

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Not Regulated

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA				
ACUTE: YES	CHRONIC: NO	FIRE: NO	REACTIVITY: NO	PRESSURE GENERATING: NO

313 REPORTABLE INGREDIENTS: Permethrin. (CAS 52645-53-1) De Minimis Concentration for Section 313 of EPCRA is 1.0%.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: Pyrethrins = 1 Lb.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All non FIFRA regulated components are on the US EPA's TSCA Inventory List.

CARCINOGEN: Permethrin has been designated as a possible human carcinogen (Group C) by the U.S. EPA.

STATE REGULATIONS

No ingredients on list.

16. OTHER INFORMATION

HMIS CODES

FIRE: 1 **HEALTH:** 1 **REACTIVITY:** 0

NFPA CODES

FIRE: 0 **HEALTH:** 1 **REACTIVITY:** 0

APPROVAL DATE: 04/05/2002

REVISION SUMMARY New MSDS

ADDITIONAL MSDS INFORMATION: NFPA/HMIS Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe.

GENERAL STATEMENTS: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

COMMENTS: Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the

use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.